

AMENDMENTS TO THE CLAIMS

Please cancel Claims 51 and 52; amend Claims 7-9, 43, 47 and 50; and add new Claim 53 as follows.

LISTING OF CLAIMS

1.-6. (cancelled)

7. (currently amended) A double pipe structure in which an inner pipe for circulating fluid of high pressure is disposed in an outer pipe for circulating fluid of low pressure and the inner pipe and the outer pipe are formed differently from each other and are joined to a joint member at respective end portions, wherein

an end portion of the inner pipe and an end portion of the outer pipe each define a plastically deforming means deformed area directly engaging the joint member for joining the joint member to the inner and outer pipes; and

the end portion of the inner pipe ~~extending~~ extends from the ~~joint member~~ is end portion of the outer pipe, extends through ~~engaged with an insertion hole defined by the joint member and is joined to the joint member by means of~~ expanding the end portion of the inner pipe at a side of the joint member to form the plastically deformed area of the inner pipe.

8. (currently amended) A double pipe structure according to claim 7, wherein the joint member includes a port connected to another pipe, the plastically deforming ~~means-joins~~ area of the inner pipe joining the inner pipe to the joint member by expanding ~~[[an]]~~ the end portion of the inner pipe to form the plastically deformed

area of the inner pipe, and the outer pipe is joined to the joint member by contracting [[an]] the end portion of the outer pipe to form the plastically deformed area of the outer pipe.

9. (currently amended; withdrawn) A double pipe structure according to claim 7, wherein the joint member includes a port connected to another pipe, the plastically deforming ~~means joins~~ area of the inner pipe joining the inner pipe to the joint member by expanding [[an]] the end portion of the inner pipe to form the plastically deformed area of the inner pipe, and the joint member is joined to the outer pipe by contracting an end portion of the joint member.

10. (previously presented) A double pipe structure according to claim 7, wherein a seal member is interposed in a joint portion of the joint member and the inner pipe or in a joint portion of the joint member and the outer pipe.

11. (original) A double pipe structure according to claim 7, wherein rigidity of the inner pipe is lower than rigidity of the outer pipe.

12.-42. (cancelled)

43. (currently amended) A double pipe structure in which an inner pipe for circulating fluid of high pressure is disposed in an outer pipe for circulating fluid of low

pressure and the inner pipe and the outer pipe are formed differently from each other and are joined to the joint member at respective end portions, wherein

the inner pipe and the outer pipe are each joined to the joint member by a plastically ~~deforming means~~ deformed area directly engaging the joint member,

the joint member includes a cylindrical portion formed at an end of the joint member and connected to the outer pipe, an insertion hole, ~~[[into]]~~ through which the inner pipe ~~is inserted~~ extends, is formed ~~step-like toward the other~~ at an opposite end of the joint member inside the joint member, and a port for refrigerant of low pressure and a port for refrigerant of high pressure are connected to another pipe,

the inner pipe ~~is arranged so as to protrude~~ protrudes from an end portion of the outer pipe, ~~inserted into~~ extends through the insertion hole through the cylindrical portion, and joined to the ~~step-like insertion hole at the other end of~~ opposite end of the joint member by ~~means of~~ drawing for expanding an end portion of the inner pipe to form the plastically deformed area of the inner pipe or by ~~means of~~ bead pressure-contact machining the end portion of the inner pipe to form the plastically deformed area of the inner pipe, and

the outer pipe is joined to the cylindrical portion formed at the end of the joint member by ~~means of~~ drawing for contracting ~~[[an]]~~ the end portion of the outer pipe to form the plastically deformed area of the outer pipe.

44. (previously presented) A double pipe structure according to claim 43, wherein a seal member is interposed in a joint portion of the joint member and the inner pipe or in a joint portion of the joint member and the outer pipe.

45. (previously presented) A double pipe structure according to claim 43, wherein rigidity of the inner pipe is lower than rigidity of the outer pipe.

46. (cancelled)

47. (currently amended) A double pipe structure comprising:

a double pipe in which an inner pipe is laid in an outer pipe, said inner pipe and said outer pipe being formed differently from each other; and

a joint member ~~jointing~~ joined to an end portion of said inner pipe and an end portion of said outer pipe; wherein[[:]]

said inner pipe is jointed to said joint member at a state which said inner pipe is arranged eccentric with respect to said outer pipe;

an end portion of the inner pipe and an end portion of the outer pipe each define a plastically deformed area directly engaging the joint member for joining the joint member to the inner and outer pipes; and

the end portion of the inner pipe extends from the end portion of the outer pipe, extends through an insertion hole defined by the joint member and is joined to the joint member by expanding the end portion of the inner pipe at a side of the joint member to form the plastically deformed area of the inner pipe.

48. (previously presented) A double pipe structure according to the new claim 47, wherein said joint member has a port and an extending passage extending from

said outer pipe and communicating with the port, and wherein said inner pipe is arranged eccentric with respect to said outer pipe on an opposed side to the port.

49. (previously presented) A double pipe structure according to the new claim 47, wherein a bent portion is formed in a portion of said double pipe in the longitudinal direction.

50. (currently amended) A double pipe structure according to the new claim 47, wherein a fluid of high pressure circulates in said inner pipe and a fluid of low pressure circulates in said outer pipe.

51.-52. (cancelled)

53. (new) A double pipe structure comprising:

a double pipe in which an inner pipe is laid in an outer pipe, said inner pipe and said outer pipe being formed differently from each other, and

a joint member jointed to an end portion of said inner pipe and an end portion of said outer pipe; wherein

said joint member includes a body, a cylindrical male portion protruding from the body and to which said outer pipe is connected, an extending passage extending from said outer pipe and communicating with a hollow portion of the cylindrical male portion, and a groove, a diameter of the groove being smaller than an

outer diameter of the cylindrical male portion, formed on the cylindrical male portion,
and wherein

said outer pipe is disposed over the cylindrical male portion of said joint member, the end portion of said outer pipe defines a plastically deformed area disposed within the groove of the cylindrical male portion to join the outer pipe to the cylindrical male portion of said joint member.